

# Calorimeter Design Review

## June 1 - 2, 1998, Naval Research Lab

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### Objectives

- ❑ Calorimeter Scientific Requirements Review (GIDSC / GLAST science team participation only)
- ❑ Calorimeter ASIC Review
  - “External” ASIC design experts
  - Chaired by Wm. Atwood
  - Review the electronics concept and specifications
  - Review current front end ASIC technology, design and performance
  - Review future program for ASIC development
- ❑ Prepare report/recommendation to the GLAST Facilities Definition Team

# Calorimeter ASIC Review Committee

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Bill Atwood, SLAC (chair)

Jim Ampe, NRL

Bob, Baker, GSFC

Chuck Britton, ORNL

David Dorfan, UCSC

Oren Milgrome, LBL

Scott Williams, Stanford (sec'y)

# Charge to the Review Committee

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- Review the GLAST calorimeter electronics concept and specifications and determine its ability to meet the requirements.
- Review the design of the calorimeter prototype front-end ASIC, in particular the technology used, design margins, radiation hardness, robustness and efficiency of design.
- Review the future program of the GLAST calorimeter electronics.

# Draft Agenda

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Morning, June 1

GIDSC/Science team closed discussion of calorimeter requirements

- Energy range
- Field of view
- Energy Resolution
- TeV Electrons

Noon, June 1

Joint lunch of Cal Review Team and ScienceTeam

Afternoon, June 1

Calorimeter Design Review

- GLAST Introduction / calorimeter context
- Calorimeter concept overview
- Derived calorimeter performance requirements
- Prototype front end ASIC design
- Prototype ASIC testing and performance

# Draft Agenda (cont)

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Morning, June 2

## Calorimeter Design Review

- ASIC performance discussion
- Flight ASIC requirements
- Configuration for next ASIC iteration
- Calorimeter readout and data system

Noon, June 2

## Joint lunch of Cal Review Team and ScienceTeam

Afternoon, June 2

## Calorimeter Design Review

- Committee discussion, report organization
- Presentation of preliminary review report to GLAST team
- Discussion of future plans for calorimeter electronics.